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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/576,993	04/25/2006	Andrew J. Dosmann	MSE-2683	5821
	71331 7590 06/25/2010 NIXON PEABODY LLP		EXAMINER	
	e Plaza, 16th Floor	MA, JAMESON Q		
CHICAGO, IL 60606-6613			ART UNIT	PAPER NUMBER
			1797	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/576,993	DOSMANN, ANDREW J.			
		Examiner	Art Unit			
		JAMESON Q. MA	1797			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)[\	Responsive to communication(s) filed on 29 Ma	arch 2010				
· · · · · · · · · · · · · · · · · · ·	This action is FINAL . 2b) ☐ This action is non-final.					
′=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
٠,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
	·	pa	3 3.3.2.3.			
Dispositi	on of Claims					
4)🛛	☑ Claim(s) <u>1,<i>4-13 and 15-25</i></u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	5) Claim(s) is/are allowed.					
6)⊠	6)⊠ Claim(s) <u>1,<i>4-13 and 15-25</i></u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)□	Claim(s) are subject to restriction and/or	election requirement.				
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notic 3) Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

2. Claims 1, 4-13, and 15-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Husar (US 2002/0061260).

Regarding claims 1, 8, 15, and 21, Husar discloses a device and method of manufacturing comprising:

A first format member comprising a first inner surface (see fig. 1 and [0139]: cover sheeting 3 is viewed as a first format member)

A second format member (see fig 14: volume receiving part 2^{IV}) comprising a second inner surface and a well (see fig. 14: the middle well portion 4^{IV} is being viewed as a 'well') disposed within said second inner surface.

A sample fill nose (see fig. 14: right most well portion 4^{IV} with nozzle portion 6^{II} is being viewed as a 'sample fill nose') disposed within said second format member and extending from a sample collection opening at a first end of sample fill nose to intersect with said well at a second end of said sample fill nose

A vent (see fig. 14: the left-most well portion 4^{IV} is being viewed as a 'vent') disposed within said second format member and extending along said second inner surface from a vent opening (transition portion 10) at a first end of said vent to intersect with said well at a second end of said vent, with said well at a second end of said vent,

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Wherein said sample fill nose has a cross-section and said vent has a cross-section different from said sample fill nose cross-section (see fig. 14: as apparent from the figure, the 'vent' has cross-sections that are different from the cross-sections of the 'sample fill nose').

The vent is viewed to be configured to receive sample overfill liquid from a sample testing region.

Husar also discloses that structural elements 32 (see fig. 13 and [0187-0190]) which increase the surface and/or stimulate turbulence on a wall of the wells. These structural elements are viewed to correspond to the 'platform' required by independent claims 1, 8, 15, and 21).

Husar does not explicitly disclose that the structural elements are located on the first format member (cover sheeting 3). However, the placement of the structural elements (platforms) is strictly an engineering design choice that would have been obvious to one of ordinary skill in the art barring any unexpected results based on the exact placement of the structural elements or platforms. Therefore it would have been obvious to one of ordinary skill in the art at the time of invention to place the structural elements (platforms) onto the first format member (cover sheeting). As a result, the structural elements (platforms) will protrude from the first format member into a well in the second format member that is configured to receive it. It is noted that limitations in claims 1 and 8 directed to the platform defining a sample testing region volume, said well and said platform configured to control said sample testing region volume are intended use limitations which do not structurally distinguish the claims from the cited

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prior art. A recitation directed to the manner in which a claimed apparatus is intended to be used does not distinguish the claimed apparatus from the prior art, if the prior art has the capability to so perform. It is further noted for claim 15 that since the sample testing region is capable of holding some predetermined volume, it meets the limitation configured to hold a predetermined sample volume.

For claim 4, said vent intersects with said well at an area approximately opposing an intersection of said sample fill nose with said well.

For claim 5, said platform extends from said first inner surface to a platform height and wherein said well extends within said second format member to a depth grater than said platform height, thereby further defining said sample testing region for accepting said sample.

For claims 6 and 16, Husar discloses that surface modification is further considered in defined functional fields (e.g. to functionalize surfaces in an active/reactive or passive way; amino groups, carboxyl groups, streptavidin, enzymes, among others), see [0080]. While the reagents are not explicitly disclosed as located on the structural elements (platforms), the placement of the reagents is strictly an engineering design choice that would have been obvious to one of ordinary skill in the art barring any unexpected results based on the exact placement of the structural elements or platforms. Therefore it would have been obvious to one of ordinary skill in the art at the time of invention to place the reagents onto the surface of both the well and the platforms. Further, as the device disclosed by Husar is directed to optical testing (see [0006-0009]), it would have been obvious to one of ordinary skill in the art

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to functionally modify the entire surface of the interior of the device to ensure that the liquid flowing through it would contact the deposited reagents.

For claim 7, the sample testing region has a volume and further comprising a fill nose disposed within said second format member and extending from a sample collection opening at a first end to said sample testing region at a second end, said fill nose having a fill nose volume greater than said sample testing region volume.

For claim 9, figure 13 discloses cylindrical structural elements (platforms).

For claim 10, the sample fill nose is adapted to transport a volume of said sample from said sample collection opening to said sample testing region via capillary action.

For claims 11-12, Husar discloses all of the claim limitations as set forth above. However, Husar does not explicitly disclose the format wherein the volume of said sample is approximately 50 nl or within the range from approximately 5 nl to approximately 1000 nl.

Regarding limitations recited in claims 11-12 which are directed to the volume of said sample, it is noted that neither the manner of operating a disclosed device nor material or article worked upon further limit an apparatus claim. Said limitations do not differentiate apparatus claims from prior art. See MPEP § 2114 and 2115. Further, it has been held that process limitations do not have patentable weight in an apparatus claim. See Ex parte Thibault, 164 USPQ 666, 667 (Bd. App. 1969) that states "Expressions relating the apparatus to contents thereof and to an intended operation are of no significance in determining patentability of the apparatus claim."

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For claim 13, said vent opening is provided on an opposite side of said format from said sample collection opening.

For claim 17, said sample fill nose notch approximately opposes said vent notch across said well.

For claim 18, the method further comprises providing adhesive on one or both of said first and second format members (see [0097]).

For claims 19-20, the vent notch and sample fill nose notch have rectangular cross-sections (see fig. 14).

For claims 22-24, said vent cross-section has a first area and said sample fill nose cross-section has a second area, said first area is greater than said second area.

For claim 25, said platform extends in a direction substantially perpendicular to said inner surface.

Response to Arguments

3. Applicant's arguments filed 3/29/2010 have been fully considered but they are not persuasive. Applicant asserts on page 7 of the response that the rejection combines an element from fig. 1 with embodiments in figs. 13-14. In response, it is noted that all of the embodiments of fig. 1 and fig. 14 are directed generally to a 'proportioning disposable,' see [0052] and [0065]. It is further noted that both fig. 1 and fig. 14 refer to the bottom portions as 'volume receiving parts,' see [0137] and [0065]. Therefore, the cap is intended to be used by the Husar reference in multiple embodiments.

Applicant describes the purpose of elements 32 on page 8 of the response.

Applicant further alleges that Husar's teaching that the structural elements mix sample

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liquid and stimulate turbulence supports its teaching of elements being present on the bottom of the well. Applicant also asserts that because the reference discloses that the elements are 'preferably produced at the bottom of the well,' that the reference teaches away from any modification. In response, it is noted that the reference does not teach away from the modification because it does not explicitly state that the modification used by the Office Action would result in a device that was not functional for the designed purpose. Further, the engineering modification used in the Office Action would still allow for the structural elements to 'mix sample liquid and stimulate turbulence.'

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In response to the allegation that the reference's disclosure of structural elements is not for the purpose of controlling a sample testing region volume, or for forming or defining a sample testing region having a predetermined volume, it is noted that limitations in claims 1 and 8 directed to the platform defining a sample testing region volume, said well and said platform configured to control said sample testing region volume are intended use limitations which do not structurally distinguish the claims from the cited prior art. A recitation directed to the manner in which a claimed apparatus is intended to be used does not distinguish the claimed apparatus from the prior art, if the prior art has the capability to so perform. It is further noted for claim 15 that since the sample testing region is capable of holding some predetermined volume, it meets the limitation

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Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action (added limitations). Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMESON Q. MA whose telephone number is (571)270-7063. The examiner can normally be reached on M-F 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Marcheschi can be reached on (571)272-1374. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JM June 22, 2010 /Michael A Marcheschi/ Supervisory Patent Examiner, Art Unit 1797